

November 4, 2011

Ms. Joy Hilton, New Hampshire Unit United States Environmental Protection Agency Planning and Administration (SPA) P.O. Box 8127 Boston, MA 02114-8127

Re: National Pollutant Discharge Elimination System Permit #NH0090000 Summary of Storm Water Discharge System Maintenance Pease International Trade Port Portsmouth, NH

Dear Ms. Hilton:

ENPRO Services, Inc. (ENPRO) has prepared this correspondence to provide a summary of completed maintenance activities at the Pease International Trade Port. The Pease Development Authority (PDA) maintains an active stormwater discharge system to McIntyre Brook which is currently regulated under the National Pollutant Discharge Elimination System (NPDES) Program Permit # NH0090000. ENPRO dewatered and cleaned the oil/water separator as part of routine, scheduled maintenance at the request of the PDA. The work was completed over a 3 day period between October 24, 2011 and October 26, 2011.

The oil/water separator system consists of an open-top concrete vault with two chambers that run the length of the separator system. Photographs of the system in its current configuration are attached. ENPRO's maintenance activities were conducted as follows:

- Diverted the entire system flow into Chamber 1;
- Dewatered remaining water into Chamber 2;
- Cleaned Chamber 2:
- Diverted the entire system flow into Chamber 1;
- Cleaned Chamber 1; and,
- Restored the oil/water separator to normal operation through both chambers.



Because the oil/water separator is part of an active stormwater conveyance system, maintenance activities were scheduled to coincide with a period of dry weather when flow through the oil/water separator system was low.

A sample of the effluent discharge was collected following the completion of maintenance activities on October 26, 2011 and analyzed for several effluent characteristics representative of the discharge to McIntyre Brook. The sample was analyzed for biological oxygen demand, chemical oxygen demand, volatile organic compounds, polynuclear aromatic hydrocarbons, pH, oil and grease, surfactants, total suspended solids, recoverable iron and zinc. A copy of the analytical report is attached.

Please contact me at (603) 410-1150 if you have any questions, or require additional information.

Sincerely,

ENPRO Services, Inc.

Gardner Warr

Project Manager

Attachments

Photographs Laboratory Report

cc: Michael Mates, Pease Development Authority

1. Samu han

55 International Drive Portsmouth, NH 03801

~ Serving the

Greater Northeast ~



View showing oil/water separator from the influent side.



View showing close up view of effluent weirs.



View showing close up view of influent weirs.



View showing oil/water separator from the effluent side.



195 Commerce Way Suite E Portsmouth, New Hampshire 03801 603-436-5111 Fax 603-430-2151 800-929-9906 www.analyticslab.com

Mr. Gardner Warr ENPRO Services Inc. 12 Mulliken Way Newburyport MA 01950 Report Number: 71342

Revision: Rev. 0

Re: Mcyntire Brook-Pease (Project No: 3103-11)

Enclosed are the results of the analyses on your sample(s). Samples were received on 26 October 2011 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Sample Analysis: The attached pages detail the Client Sample IDs, Lab Sample IDs, and

Analyses requested

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, North Carolina, and is accredited by the Department of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature Stephen L. Knollmeyer Lab. Director

Date

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195 Commerce Way Suite E Portsmouth, New Hampshire 03801 603-436-5111 Fax 603-430-2151 800-929-9906 www.analyticslab.com

CLIENT: ENPRO Services Inc.

REPORT NUMBER: 71342

REV: Rev. 0

PROJECT: Mcyntire Brook-Pease (Project No: 3103-11)

<u>Lab Number</u> 71342-1	Sample Date 10/26/11	Station Location Separator	<u>Analysis</u> Biochemical Oxygen Demand
	10/26/11	Separator	Chemical Oxygen Demand
	10/26/11	Separator	EPA 8260 Volatile Organics
	10/26/11	Separator	EPA 8270 (PAH only)
	10/26/11	Separator	Metals
	10/26/11	Separator	Metals Digestion
	10/26/11	Separator	Oil and Grease
	10/26/11	Separator	Surfactants - MBAS
	10/26/11	Separator	SW-846 9040 pH in Water
	10/26/11	Separator	Total Suspended Solids



CLIENT SAMPLE ID

Mcyntire Brook-Pease

195 Commerce Way Portsmouth, New Hampshire 03801 603-436-5111 Fax 603-430-2151 800-929-9906

November 1, 2011

Mr. Gardner Warr ENPRO Services Inc. 12 Mulliken Way Newburyport MA 01950

Project Number: 3103-11

Field Sample ID: Separator

Project Name:

SAMPLE DATA

Lab Sample ID:

71342-1

Matrix:

Aqueous

N/A

Percent Solid: Dilution Factor:

1

Collection Date:

10/26/11

Lab Receipt Date: 10/26/11

			Analysis Date: 10	0/31/11	
Al		SULTS VOLA	TILE ORGANICS	A	
COMPOUND	Quantitation Limit µg/L	Result µg/L	COMPOUND	Quantitation Limit µg/L	Result µg/L
Benzene	1	U	1,3-Dichloropropane	1	U
Bromobenzene	1	U	cis-1,3-Dichloropropene	1	U
Bromochloromethane	1	U	trans-1,3-Dichloropropene	1	U
Bromodichloromethane	1	U	2,2-Dichloropropane	1	U
Bromoform	1	U	1,1-Dichloropropene	1	U
Bromomethane	2	\mathbf{U}	Ethylbenzen e	1	U
n-butylbenzene	1	U	Hexachlorobutadiene	1	U
sec-butylbenzene	1	\mathbf{U}	Isopropylbenzene	1	U
tert-butylbenzene	1	U	p-isopropyltoluene	1	U
Carbon Tetrachloride	1	U	Methylene Chloride	5	U
Chlorobenzene	1	U	Methyl-tert-butyl ether (MTBE)) 1	\mathbf{U}
Chloroethane	1	U	Naphthalene	1	U
Chloroform	1	U	n-Propylbenzene	1	U
Chloromethane	1	U	Styrene	1	U
2-Chlorotoluene	1	U	1,1,1,2-Tetrachloroethane	1	Ü
1-Chlorotoluene	1	U	1,1,2,2-Tetrachloroethane	1	U
Dibromochloromethane	1	U	Tetrachloroethene	1	U
,2-Dibromo-3-chloropropane	1	U	Toluene	1	Ü
1,2-Dibromoethane	1	U	1,2,3-Trichlorobenzene	1	Ŭ
Dibromomethane	1	U	1,2,4-Trichlorobenzene	1	Ū
1,2-Dichlorobenzene	1	U	1,1,1-Trichloroethane	1	Ü
1,3-Dichlorobenzene	1	U	1,1,2-Trichloroethane	1	Ü
4-Dichlorobenzene	1	U	Trichloroethene	1	Ü
Dichlorodifluoromethane	1	U	Trichlorofluoromethane	1	Ü
1,1-Dichloroethane	1	U	1,2,3-Trichloropropane	1	Ü
1,2-Dichloroethane	1	U	1,2,4-Trimethylbenzene	1	Ü
1,1-Dichloroethene	1	Ū	1,3,5-Trimethylbenzene	1	Ü
cis-1,2-Dichloroethene	1	Ū	Vinyl Chloride	1	U
rans-1,2-Dichloroethene	1	U	o-Xylene	1	U
1,2-Dichloropropane	1	Ü	m,p-Xylene	1	U
Acetone	10	Ü	Diethyl ether	1	U
Carbon Disulfide	1	Ü	2-Hexanone	10	U
Tetrahydrofuran	2	Ü	Methyl isobutyl ketone	10	U
Methyl ethyl ketone	10	Ü	Di-isopropyl ether (DIPE)	1	U
-Butyl alcohol (TBA)	20	Ü	Ethyl t-butyl ether (ETBE)	1	Ü
-Amyl methyl ether (TAME)	1	U	1,3,5-Trichlorobenzene	1	Ŭ
	•	Č	1,4-Dioxane	30	U
	Surro	gate Standard R	lecovery		
d4-1,2-Dichloroethane 103	%	d8-Toluene	100 % Bromo	fluorobenzene	101 9
U=Undetected	J=Estimated	E=Exceeds Ca	alibration Range B=Detected	in Blank	

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

COMMENTS:

Authorized signature (

Analytics Report 71342 page 0003 of 13



Mr. Gardner Warr ENPRO Services Inc. 12 Mulliken Way Newburyport MA 01950

CLIENT SAMPLE ID

SAMPLE DATA

Lab Sample ID:

71342-1

November 1, 2011

Matrix:

Aqueous NA

Percent Solid:

1

Dilution Factor: Collection Date:

10/26/11

Lab Receipt Date:

10/26/11

Extraction Date: Analysis Date:

10/27/11 11/01/11

Project Number: Field Sample ID:

Project Name:

3103-11 Separator

Mcyntire Brook-Pease

	ANALYTICAL RESUI	LTS POLYNUCLEA	R AROMATICS	
	COMPOUND	Quantitation Limit μg/L	Results μg/L	
	Naphthalene	0.1	0.09 Ј	
	Acenaphthylene	0.1	U	
	Acenaphthene	0.1	U	
	Fluorene	0.1	U	
	Phenanthrene	0.1	U	
	Anthracene	0.1	U	
	Fluoranthene	0.1	U	
	Pyrene	0.1	U	
	Benzo[a]anthracene	0.1	U	
	Chrysene	0.1	U	
	Benzo[b] fluoranthene	0.1	U	
	Benzo[k] fluoranthene	0.1	U	
	Benzo[a] pyrene	0.1	U	
	Dibenz [a,h] anthracene	0.1	U	
	Benzo(g,h,i) perylene	0.1	U	
	Indeno [1,2,3-cd] pyrene	0.1	U	
	2-Methylnaphthalene	0.1	U	
	Surrogate St	andard Recovery		
d5-nitrobenzene	85 % 2-Fluorobiphenyl	87 %	d14-p-terphenyl	92 %
U=Und	etected J=Estimated E=Exceeds	Calibration Range B	=Detected in Blank	

METHODOLOGY: Sample analysis was conducted according to: "TestMethods for Evaluating Solid Waste, SW-846 Method 8270C." COMMENTS: Detection limits achieved using Selected Ion Monitoring.

Authorized signature Mulbull





Mr. Gardner Warr ENPRO Services Inc. 12 Mulliken Way Newburyport MÅ 01950

November 1, 2011

SAMPLE DATA

CT	TENTE	CA	AADT	E ID

Project Name:

Mcyntire Brook-Pease

Project Number:

3103-11

Client Sample ID:

Separator

Lab Sample ID:

71342-1

Matrix:

Aqueous

Collection Date:

10/26/11 Time Collected: 15:05

Lab Receipt Date:

10/26/11

Analysis Date:

10/26/11 Time Analyzed: 15:57

pH ANALYSIS

Sample	Result	Units
71342-1	7.3	pH Units

METHODOLOGY: Sample analyzed according to "EPA SW 846 Method 9040 pH in water"

COMMENTS:

Authorized signature Whilelell

Maine Environmental Laboratory

Report of Analyses

One Main Street Yarmouth, Maine 04096-1107

Tel (207) 846-6569

Fax (207) 846-9066

e-mail: melab@maine.rr.com

Kate Zaleski

November 02, 2011

Analytics Environmental Laboratory, LLC

Page 1 of 2

195 Commerce Way, Suite E

Portsmouth, NH 03801

Report No.:

AEL6429-11

Enclosed are the results of the analyses requested for your samples as received by the laboratory. Samples were received in acceptable condition and analyzed within method holding times. All quality control data was within laboratory acceptance limits unless noted. The Limit of Quantitation (LOQ) is the minimum level for reporting quantitative data. The Limit of Detection (LOD) is the minimum level for reporting estimated data. Data reported between the Limit of Quantitation and Limit of Detection are J flagged as estimated. Maine Environmental Laboratory is certified by Maine (cert. #2011008), New Hampshire NELAP (NHELAP) (cert. #2031) and Connecticut (PH #0103). A list of certified parameters is available on request. The results reported herein conform to the most current NELAP standards where applicable unless otherwise narrated in this report. This report shall not be reproduced except in full without the written consent of the laboratory.

The complete report consists of the following sections:

Maine Environmental Laboratory report

Chain of custody form

References

EPA - EPA600/4-79-020, Methods for Chemical Analysis of Water and Wastes, USEPA, Cincinnati, Ohio, March 1983.

SW8 - SW846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, USEPA, third edition, 1986.

STM - Standard Methods for the Examination of Water and Wastewater, 18th edition, APHA, AWWA, WPCF, 1992.

CLP - USEPA CLP Statement of Work for Inorganics, ILMO3.0.

AOA - Official Methods of Analysis of the Association of Official Analytical Chemists, 14th edition, 1984.

EPA2 - EPA/600R-94/111, Methods for the Determination of Metals in Environmental Samples, Supplement 1, May, 1994.

EPA1 - EPA/600/R-93/100 Methods for the Determination of Inorganic Substances in Environmental Samples, Aug. 1993.

HACH - Chemical Oxygen Demand, Method 8000, Hach Handbook of Water Analysis, Hach Chemical Company, 1979.

HEX - EPA-821-R-98-002, Method 1664, Rev. A: N-Hexane Extractable Material by Extraction and Gravimetry, Feb. 1999.

Authorized signature

Mulat Finder

Herbert S. Kodis, laboratory director

Maine Environmental Laboratory

Report of Analyses

One Main Street Yarmouth, Maine 04096-1107

Tel (207) 846-6569

Fax (207) 846-9066

e-mail: melab@maine.rr.com

Kate Zaleski

Page 2 of 2

Analytics Environmental Laboratory, LLC

195 Commerce Way, Suite E

Portsmouth, NH 03801

November 02, 2011

Report No:

AEL6429-11

Sampler: No Data

Date received:

10/27/11

Sampling date & time:

10/26/11-1505

Project ID:

Mcyntire Brook - Pease #3103-11

Sample matrix: Aqueous

Laboratory ID:

AEL642911-01

Sample ID: Separator (71342-1)

			Date-Time				
Parameter	Results	units	Analyzed	LOD	LOQ	Method	Reference
Iron, total recoverable	1.99	mg/L	11/02/11	0.02	0.05	200.2/200.7	EPA2
Zinc, total recoverable	0.007	mg/L	11/02/11	0.002	0.005	200.2/200.7	EPA2
BOD5, seeded	11	mg/L	10/27/11-1330			5210B	STM
COD	27	mg/L	10/31/11	3	10	8000	HACH
Oil & Grease	ND	mg/L	11/01/11	1.3	4.2	1664A SPE	HEX
TSS	ND	mg/L	11/01/11		4	2540D	STM

Chain Of Custody Form MEL

AEL6429-11

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Relinquished By:	Relinquished By:	Relinquished By:	10 Days Solid % done by:	Turneround Time (TAT) 24 Hours* 48 Hours* Method Type RCBA 72 Hours* 1 Table 1	geyne@analyticsiab.com	Email Results to: Comments, Additional Analyses, or Special Instructions:						**************************************				Separator 10/24/11	Sample Identification Sample	equired): 71342	*	Phone: 603-436-5111	Address: 195 Commerce Way, Suite E	12	Company: Analytics Environmental Laboratory		Project Name: Mayntice Brook - Reuse	environmentol laboratory LLC
			AEL MEL (Free o	APDES ON COLOR		al Analyses, or Speci										1 1505	Sample Field F	iltera		F = H2SO4		A= HCL	Preseraytion Key:	Preservation Code:	Se	nental by LLC
			(Free or Charge) NA	An Maria	F	aal Instructions:				\						×××	Metals:	RCR			TAL23	Oth		B	Chr.k	
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	4		ł X		Report Type:								1					_			_				de	Fax
			Standard Other:	Level III ME	<u> </u>	Project Requirements: *Fee may apply										AQ 5	Matrix No. of pH Containers checked	SW = Surface Water E = Extract	WP = Wipe WW = Wastewater	Matrix Key:		5) Labels checked by:	4) pH checked by:	3) Received in good condition:	2) Temperature (°C):	Samples were: Samples were: 1) Shipped or hand-delivere
			Type*:	(eg. S-1 or GW-1)	State Standard:	entes:		-								71342-1	Analytics Sample #	io = Oil x = Other	DW - Drinking Water S - Soil / Sludge	SW = Groundwater		XX		ondition: Sor N	3	nd-delivered
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Absolute Resource associates

124 Heritage Avenue #10 Portsmouth, NH 03801

Kate Zaleski

Analytics Environmental Laboratory, LLC

195 Commerce Way

Portsmouth, NH 03801

PO Number: 71342

Job ID: 22735

Date Received: 10/27/11

Project: Mcyntire Brook-Pease 3103-11

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely, Absolute Resource Associates

Sue Sylvester

Principal, General Manager

Date of Approval: 11/2/2011

Total number of pages: 3

Absolute Resource Associates Certifications

New Hampshire 1732 Maine NH903 Massachusetts

M-NH902

Project ID: Mcyntire Brook-Pease 3103-11

Job ID: 22735

Sample#: 22735-001 Sample ID: Separator Matrix: Water

Sampled: 10/26/11 15:05 **Analysis** Quant Instr Dil'n Prep Units Factor Analyst Date **Batch Parameter** Result Limit **Date** Time Reference AMK 10/27/111102452 10/27/11 13:45 SM5540C < 0.1 0.1 mg/L 1 Surfactants (MBAS)

Chain Of Custody Form Resource

	Relinquished By:	Relinquished By:	72 Hours* X 5 bays* \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	24 Hours* 48 Hours*	Turnaround Time (TAT)		Comments Additional Ar		0	-				Separator 10/20), 1	Sample Identification Sample Date	PO# (If required): 71342		Portsmouth, NH 03801	ulte E	Report to: Ms. Kate Zaleski	Company: Analytics Environmental Laboratory		Project Name: MC4NHICE PRODE - POUSE	STISTY IISS / abordory ILC	
	Date: Time: Received By: V. Date:	Date: Time: Repelified By:				rior I oxymention	Comments Additional Analyses or Special lists intions:				1	56		1505	Time Field Metals	RCR	17 y	F=H2SO4 07 N		_		rvation code: S Please fill in preservation code here	Circle and/or Write Required Analysis Followed by Preservation Code	(800) 929-9906	195 Commerce Way, Suite E
Page of)	DOD Level IV RIVER Standard Other: Type*:	P Level III ME (eg. S-1 or GW-1] Level II	*Fee may apply Report Type: Charles Charles	Desirate Desirate Control of the Con							AQ 1 71342-1	Matrix No. of pH Analytics Sample #	SW = Surface Water	WP = Wige OW = Driving Water WP = Wige S = Soil / Sludge			5) Labels checked by:	4) pH checked by:	3) Received in good condition: Y or N	2) Temperature (°C): 1°C ON 1 Ca	Samples were: 1) Shipped or hand-delivered ,	Sample Receipt

Chain Of Custody Form

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